

### Snap-in Type

Series: HA Type : TS

- Features Endurance: 105°C 2000 h  
Dia. 20 mm  
Length 20 mm

Country of Origin  
Japan  
Malaysia  
U.S.A (\*\*\*)



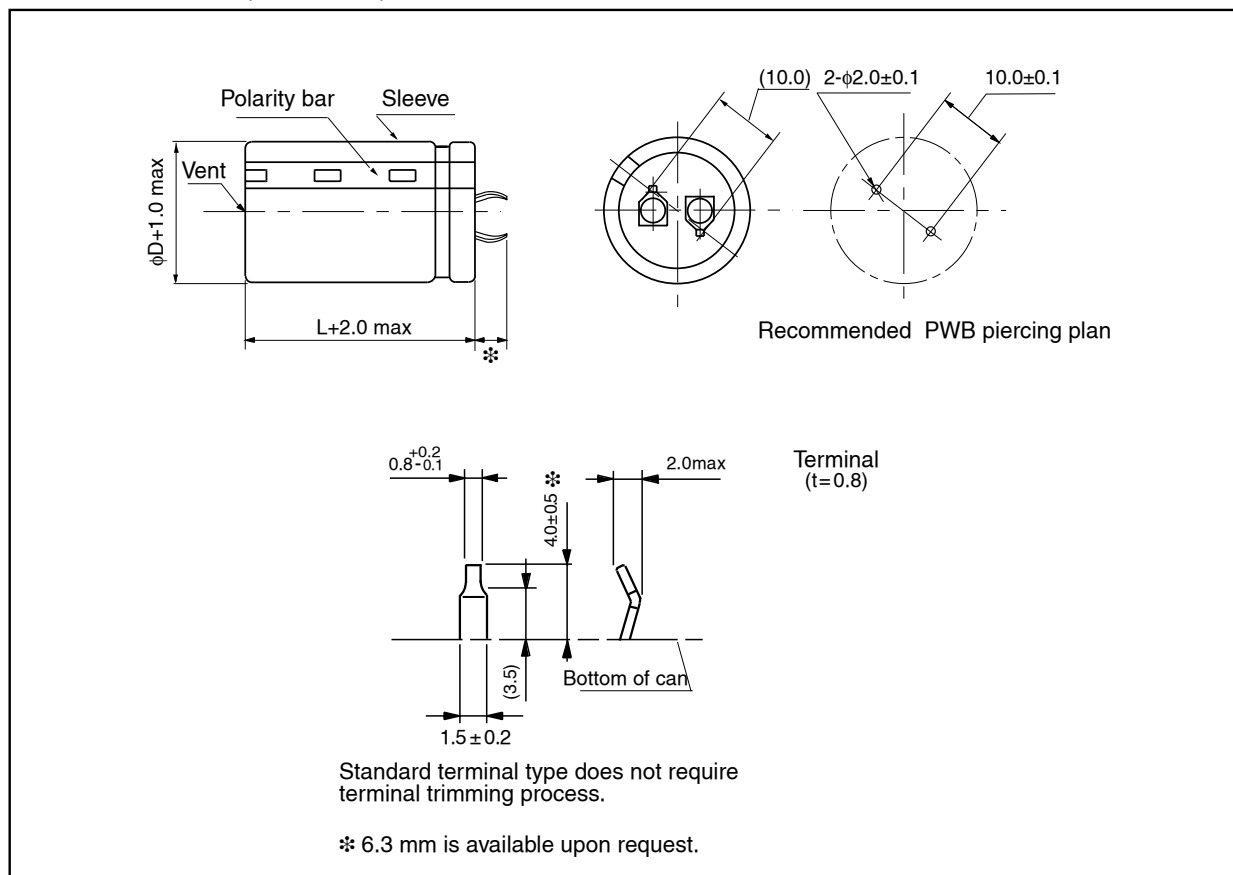
- Recommended Applications  
Smoothing circuits, AC adaptor

(\*\*\*) Regarding USA product,  
Please check ACOM's  
Catalog.

#### Specifications

Category temp. range	-40 to +105°C	-40 to +105°C	-25 to +105°C					
Rated W.V. Range	10 to 100 V .DC	160 to 250 V .DC	315 to 400 V .DC					
Nominal Cap. Range	330 to 68000 μ F	68 to 470 μ F	33 to 120 μ F					
Capacitance Tolerance	±20 % (120Hz/+20°C)							
DC Leakage Current	3√CV (μA) max. after 5 minutes application of rated working voltage at +20°C. C:Capacitance(μF) V: W.V. (V.DC)							
tan δ	Please see the attached standard products list							
Frequency Correction Factor for Ripple Current	Frequency (Hz)	50	60	100	120	500	1k	10k to
	10 to 100V	0.93	0.95	0.99	1.00	1.05	1.08	1.15
	160 to 400V	0.75	0.80	0.95	1.00	1.20	1.25	1.40
Endurance	After 2000 hours application of DC voltage with specified ripple current (≤ rated DC working voltage) at +105°C, the capacitor shall meet the following limits.							
	Capacitance change	±20 % of initial measured value						
	tan δ	≤ 200 % of initial specified value						
	DC leakage current	≤ initial specified value						
Shelf Life	After storage for 1000 hours at +105±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)							

#### Dimensions in mm (not to scale)



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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Q'ty (pcs)	
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)		
10	10000	22	25	1.8	0.55	ECEC1AA103BB	ECEC1AA103BJ	200	
	12000	22	30	2.2	0.55	ECEC1AA123BB	ECEC1AA123BJ	200	
	15000	22	35	2.3	0.55	ECEC1AA153BB	ECEC1AA153BJ	200	
			25	2.3	0.55	ECEC1AA153CB	ECEC1AA153CJ	200	
	18000	22	40	2.4	0.55	ECEC1AA183BB	ECEC1AA183BJ	200	
			25	30	2.4	0.55	ECEC1AA183CB	ECEC1AA183CJ	200
	22000	22	45	2.6	0.55	ECEC1AA223BB	ECEC1AA223BJ	200	
			35	2.6	0.55	ECEC1AA223CB	ECEC1AA223CJ	200	
			30	2.6	0.55	ECEC1AA223DB	ECEC1AA223DJ	200	
	27000	22	50	3.1	0.55	ECEC1AA273BB	ECEC1AA273BJ	200	
			25	40	3.1	0.55	ECEC1AA273CB	ECEC1AA273CJ	200
			30	30	3.1	0.55	ECEC1AA273DB	ECEC1AA273DJ	200
			35	25	3.1	0.55	ECEC1AA273EB	ECEC1AA273EJ	200
	33000	25	45	3.4	0.55	ECEC1AA333CB	ECEC1AA333CJ	200	
			30	35	3.4	0.55	ECEC1AA333DB	ECEC1AA333DJ	100
			35	30	3.4	0.55	ECEC1AA333EB	ECEC1AA333EJ	200
	39000	25	50	3.7	0.61	ECEC1AA393CB	ECEC1AA393CJ	200	
			30	40	3.7	0.61	ECEC1AA393DB	ECEC1AA393DJ	100
			35	30	3.7	0.61	ECEC1AA393EB	ECEC1AA393EJ	200
	47000	30	45	4.2	0.69	ECEC1AA473DB	ECEC1AA473DJ	100	
35			35	4.2	0.69	ECEC1AA473EB	ECEC1AA473EJ	100	
56000	30	50	5.0	0.78	ECEC1AA563DB	ECEC1AA563DJ	100		
		35	40	5.0	0.78	ECEC1AA563EB	ECEC1AA563EJ	100	
68000	35	50	5.5	0.90	ECEC1AA683EB	ECEC1AA683EJ	100		
16	6800	22	25	2.2	0.45	ECEC1CA682BB	ECEC1CA682BJ	200	
	8200	22	30	2.4	0.45	ECEC1CA822BB	ECEC1CA822BJ	200	
	10000	22	30	2.6	0.45	ECEC1CA103BB	ECEC1CA103BJ	200	
			25	2.6	0.45	ECEC1CA103CB	ECEC1CA103CJ	200	
	12000	22	35	2.9	0.45	ECEC1CA123BB	ECEC1CA123BJ	200	
			25	30	2.9	0.45	ECEC1CA123CB	ECEC1CA123CJ	200
			30	2.9	0.45	ECEC1CA123DB	ECEC1CA123DJ	200	
	15000	22	40	3.2	0.45	ECEC1CA153BB	ECEC1CA153BJ	200	
			25	35	3.2	0.45	ECEC1CA153CB	ECEC1CA153CJ	200
			30	30	3.2	0.45	ECEC1CA153DB	ECEC1CA153DJ	200
	18000	22	45	3.5	0.45	ECEC1CA183BB	ECEC1CA183BJ	200	
			25	40	3.5	0.45	ECEC1CA183CB	ECEC1CA183CJ	200
			30	30	3.5	0.45	ECEC1CA183DB	ECEC1CA183DJ	200
			35	25	3.5	0.45	ECEC1CA183EB	ECEC1CA183EJ	200
	22000	25	45	3.8	0.45	ECEC1CA223CB	ECEC1CA223CJ	200	
			30	35	3.8	0.45	ECEC1CA223DB	ECEC1CA223DJ	100
35			30	3.8	0.45	ECEC1CA223EB	ECEC1CA223EJ	200	
27000	25	50	4.2	0.45	ECEC1CA273CB	ECEC1CA273CJ	200		

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Terminal Pitch : 10mm

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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min. Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C. plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C. plate)	
16	27000	30	40	4.2	0.45	ECEC1CA273DB	ECEC1CA273DJ	100
		35	30	4.2	0.45	ECEC1CA273EB	ECEC1CA273EJ	200
	33000	30	45	4.7	0.45	ECEC1CA333DB	ECEC1CA333DJ	100
		35	35	4.7	0.45	ECEC1CA333EB	ECEC1CA333EJ	100
	39000	30	50	5.1	0.51	ECEC1CA393DB	ECEC1CA393DJ	100
		35	40	5.1	0.51	ECEC1CA393EB	ECEC1CA393EJ	100
	47000	35	45	5.5	0.59	ECEC1CA473EB	ECEC1CA473EJ	100
56000	35	50	6.0	0.68	ECEC1CA563EB	ECEC1CA563EJ	100	
25	4700	22	25	2.0	0.35	ECEC1EA472BB	ECEC1EA472BJ	200
	5600	22	30	2.2	0.35	ECEC1EA562BB	ECEC1EA562BJ	200
	6800	22	30	2.4	0.35	ECEC1EA682BB	ECEC1EA682BJ	200
		25	25	2.4	0.35	ECEC1EA682CB	ECEC1EA682CJ	200
	8200	22	35	2.7	0.35	ECEC1EA822BB	ECEC1EA822BJ	200
		25	30	2.7	0.35	ECEC1EA822CB	ECEC1EA822CJ	200
		30	25	2.7	0.35	ECEC1EA822DB	ECEC1EA822DJ	200
	10000	22	40	3.0	0.35	ECEC1EA103BB	ECEC1EA103BJ	200
		25	35	3.0	0.35	ECEC1EA103CB	ECEC1EA103CJ	200
		30	30	3.0	0.35	ECEC1EA103DB	ECEC1EA103DJ	200
	12000	22	45	3.2	0.35	ECEC1EA123BB	ECEC1EA123BJ	200
		25	40	3.2	0.35	ECEC1EA123CB	ECEC1EA123CJ	200
		30	30	3.2	0.35	ECEC1EA123DB	ECEC1EA123DJ	200
		35	25	3.2	0.35	ECEC1EA123EB	ECEC1EA123EJ	200
	15000	25	45	3.6	0.35	ECEC1EA153CB	ECEC1EA153CJ	200
		30	35	3.6	0.35	ECEC1EA153DB	ECEC1EA153DJ	100
		35	30	3.6	0.35	ECEC1EA153EB	ECEC1EA153EJ	200
	18000	25	50	3.9	0.35	ECEC1EA183CB	ECEC1EA183CJ	200
		30	40	3.9	0.35	ECEC1EA183DB	ECEC1EA183DJ	100
		35	35	3.9	0.35	ECEC1EA183EB	ECEC1EA183EJ	100
22000	30	45	4.3	0.35	ECEC1EA223DB	ECEC1EA223DJ	100	
	35	35	4.3	0.35	ECEC1EA223EB	ECEC1EA223EJ	100	
27000	35	45	4.8	0.35	ECEC1EA273EB	ECEC1EA273EJ	100	
33000	35	50	5.5	0.35	ECEC1EA333EB	ECEC1EA333EJ	100	
35	3300	22	25	1.9	0.30	ECEC1VA332BB	ECEC1VA332BJ	200
	3900	22	30	2.0	0.30	ECEC1VA392BB	ECEC1VA392BJ	200
	4700	22	35	2.2	0.30	ECEC1VA472BB	ECEC1VA472BJ	200
		25	25	2.2	0.30	ECEC1VA472CB	ECEC1VA472CJ	200
	5600	22	35	2.4	0.30	ECEC1VA562BB	ECEC1VA562BJ	200
		25	30	2.4	0.30	ECEC1VA562CB	ECEC1VA562CJ	200
		30	25	2.4	0.30	ECEC1VA562DB	ECEC1VA562DJ	200
	6800	22	40	2.6	0.30	ECEC1VA682BB	ECEC1VA682BJ	200
		25	35	2.6	0.30	ECEC1VA682CB	ECEC1VA682CJ	200
30		30	2.6	0.30	ECEC1VA682DB	ECEC1VA682DJ	200	

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Q'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
35	8200	22	50	2.9	0.30	ECEC1VA822BB	ECEC1VA822BJ	200
		25	40	2.9	0.30	ECEC1VA822CB	ECEC1VA822CJ	200
		30	30	2.9	0.30	ECEC1VA822DB	ECEC1VA822DJ	200
		35	25	2.9	0.30	ECEC1VA822EB	ECEC1VA822EJ	200
	10000	25	45	3.2	0.30	ECEC1VA103CB	ECEC1VA103CJ	200
		30	35	3.2	0.30	ECEC1VA103DB	ECEC1VA103DJ	100
		35	30	3.2	0.30	ECEC1VA103EB	ECEC1VA103EJ	200
	12000	25	50	3.5	0.30	ECEC1VA123CB	ECEC1VA123CJ	200
		30	40	3.5	0.30	ECEC1VA123DB	ECEC1VA123DJ	100
		35	30	3.5	0.30	ECEC1VA123EB	ECEC1VA123EJ	200
	15000	30	45	3.9	0.30	ECEC1VA153DB	ECEC1VA153DJ	100
		35	35	3.9	0.30	ECEC1VA153EB	ECEC1VA153EJ	100
	18000	35	40	4.3	0.30	ECEC1VA183EB	ECEC1VA183EJ	100
	22000	35	50	5.0	0.30	ECEC1VA223EB	ECEC1VA223EJ	100
	50	1800	22	25	1.5	0.25	ECEC1HA182BB	ECEC1HA182BJ
2200		22	30	1.7	0.25	ECEC1HA222BB	ECEC1HA222BJ	200
2700		22	30	1.8	0.25	ECEC1HA272BB	ECEC1HA272BJ	200
		25	25	1.8	0.25	ECEC1HA272CB	ECEC1HA272CJ	200
3300		22	35	2.0	0.25	ECEC1HA332BB	ECEC1HA332BJ	200
		25	30	2.0	0.25	ECEC1HA332CB	ECEC1HA332CJ	200
3900		22	40	2.2	0.25	ECEC1HA392BB	ECEC1HA392BJ	200
		25	35	2.2	0.25	ECEC1HA392CB	ECEC1HA392CJ	200
		30	25	2.2	0.25	ECEC1HA392DB	ECEC1HA392DJ	200
4700		22	45	2.5	0.25	ECEC1HA472BB	ECEC1HA472BJ	200
		25	40	2.5	0.25	ECEC1HA472CB	ECEC1HA472CJ	200
		30	30	2.5	0.25	ECEC1HA472DB	ECEC1HA472DJ	200
		35	25	2.5	0.25	ECEC1HA472EB	ECEC1HA472EJ	200
5600		22	50	2.8	0.25	ECEC1HA562BB	ECEC1HA562BJ	200
		25	40	2.8	0.25	ECEC1HA562CB	ECEC1HA562CJ	200
		30	35	2.8	0.25	ECEC1HA562DB	ECEC1HA562DJ	100
		35	30	2.8	0.25	ECEC1HA562EB	ECEC1HA562EJ	200
6800		25	50	3.3	0.25	ECEC1HA682CB	ECEC1HA682CJ	200
		30	40	3.3	0.25	ECEC1HA682DB	ECEC1HA682DJ	100
		35	30	3.3	0.25	ECEC1HA682EB	ECEC1HA682EJ	200
8200		30	45	3.6	0.25	ECEC1HA822DB	ECEC1HA822DJ	100
		35	35	3.6	0.25	ECEC1HA822EB	ECEC1HA822EJ	100
10000		30	50	4.0	0.25	ECEC1HA103DB	ECEC1HA103DJ	100
	35	40	4.0	0.25	ECEC1HA103EB	ECEC1HA103EJ	100	
12000	35	45	4.5	0.25	ECEC1HA123EB	ECEC1HA123EJ	100	
15000	35	50	4.8	0.25	ECEC1HA153EB	ECEC1HA153EJ	100	
63	1200	22	25	1.4	0.20	ECEC1JA122BB	ECEC1JA122BJ	200
	1500	22	30	1.5	0.20	ECEC1JA152BB	ECEC1JA152BJ	200

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Terminal Pitch : 10m

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.		Min.Packaging Q'ty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
63	1800	22	30	1.7	0.20	ECEC1JA182BB	ECEC1JA182BJ	200
		25	25	1.7	0.20	ECEC1JA182CB	ECEC1JA182CJ	200
	2200	22	35	2.0	0.20	ECEC1JA222BB	ECEC1JA222BJ	200
		25	30	2.0	0.20	ECEC1JA222CB	ECEC1JA222CJ	200
	2700	22	40	2.2	0.20	ECEC1JA272BB	ECEC1JA272BJ	200
		25	35	2.2	0.20	ECEC1JA272CB	ECEC1JA272CJ	200
		30	25	2.2	0.20	ECEC1JA272DB	ECEC1JA272DJ	200
	3300	22	50	2.5	0.20	ECEC1JA332BB	ECEC1JA332BJ	200
		25	40	2.5	0.20	ECEC1JA332CB	ECEC1JA332CJ	200
		30	30	2.5	0.20	ECEC1JA332DB	ECEC1JA332DJ	200
		35	25	2.5	0.20	ECEC1JA332EB	ECEC1JA332EJ	200
	3900	25	45	2.7	0.20	ECEC1JA392CB	ECEC1JA392CJ	200
		30	35	2.7	0.20	ECEC1JA392DB	ECEC1JA392DJ	100
		35	30	2.7	0.20	ECEC1JA392EB	ECEC1JA392EJ	200
	4700	25	50	3.0	0.20	ECEC1JA472CB	ECEC1JA472CJ	200
		30	40	3.0	0.20	ECEC1JA472DB	ECEC1JA472DJ	100
		35	30	3.0	0.20	ECEC1JA472EB	ECEC1JA472EJ	200
	5600	30	45	3.3	0.20	ECEC1JA562DB	ECEC1JA562DJ	100
		35	35	3.3	0.20	ECEC1JA562EB	ECEC1JA562EJ	100
	6800	30	50	3.6	0.20	ECEC1JA682DB	ECEC1JA682DJ	100
35		40	3.6	0.20	ECEC1JA682EB	ECEC1JA682EJ	100	
8200	35	45	3.9	0.20	ECEC1JA822EB	ECEC1JA822EJ	100	
10000	35	50	4.4	0.20	ECEC1JA103EB	ECEC1JA103EJ	100	
80	820	22	25	1.2	0.17	ECEC1KA821BB	ECEC1KA821BJ	200
	1000	22	30	1.3	0.17	ECEC1KA102BB	ECEC1KA102BJ	200
		25	25	1.3	0.17	ECEC1KA102CB	ECEC1KA102CJ	200
	1200	22	30	1.5	0.17	ECEC1KA122BB	ECEC1KA122BJ	200
		25	25	1.5	0.17	ECEC1KA122CB	ECEC1KA122CJ	200
	1500	22	35	1.7	0.17	ECEC1KA152BB	ECEC1KA152BJ	200
		25	30	1.7	0.17	ECEC1KA152CB	ECEC1KA152CJ	200
	1800	22	40	1.8	0.17	ECEC1KA182BB	ECEC1KA182BJ	200
		25	35	1.8	0.17	ECEC1KA182CB	ECEC1KA182CJ	200
		30	25	1.8	0.17	ECEC1KA182DB	ECEC1KA182DJ	200
	2200	22	45	2.1	0.17	ECEC1KA222BB	ECEC1KA222BJ	200
		25	35	2.1	0.17	ECEC1KA222CB	ECEC1KA222CJ	200
		30	30	2.1	0.17	ECEC1KA222DB	ECEC1KA222DJ	200
		35	25	2.1	0.17	ECEC1KA222EB	ECEC1KA222EJ	200
	2700	25	45	2.4	0.17	ECEC1KA272CB	ECEC1KA272CJ	200
		30	35	2.4	0.17	ECEC1KA272DB	ECEC1KA272DJ	100
35		30	2.4	0.17	ECEC1KA272EB	ECEC1KA272EJ	200	
3300	25	50	2.6	0.17	ECEC1KA332CB	ECEC1KA332CJ	200	
	30	40	2.6	0.17	ECEC1KA332DB	ECEC1KA332DJ	100	

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		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
80	3300	35	30	2.6	0.17	ECEC1KA332EB	ECEC1KA332EJ	200
	3900	30	45	3.0	0.17	ECEC1KA392DB	ECEC1KA392DJ	100
		35	35	3.0	0.17	ECEC1KA392EB	ECEC1KA392EJ	100
	4700	30	50	3.3	0.17	ECEC1KA472DB	ECEC1KA472DJ	100
		35	40	3.3	0.17	ECEC1KA472EB	ECEC1KA472EJ	100
	5600	35	45	3.7	0.17	ECEC1KA562EB	ECEC1KA562EJ	100
6800	35	50	3.9	0.17	ECEC1KA682EB	ECEC1KA682EJ	100	
100	560	22	25	1.1	0.15	ECEC2AA561BB	ECEC2AA561BJ	200
	820	22	30	1.4	0.15	ECEC2AA821BB	ECEC2AA821BJ	200
		25	25	1.4	0.15	ECEC2AA821CB	ECEC2AA821CJ	200
	1000	22	35	1.7	0.15	ECEC2AA102BB	ECEC2AA102BJ	200
		25	30	1.7	0.15	ECEC2AA102CB	ECEC2AA102CJ	200
	1200	22	40	1.8	0.15	ECEC2AA122BB	ECEC2AA122BJ	200
		25	35	1.8	0.15	ECEC2AA122CB	ECEC2AA122CJ	200
		30	25	1.8	0.15	ECEC2AA122DB	ECEC2AA122DJ	200
	1500	22	45	2.1	0.15	ECEC2AA152BB	ECEC2AA152BJ	200
		25	40	2.1	0.15	ECEC2AA152CB	ECEC2AA152CJ	200
		30	30	2.1	0.15	ECEC2AA152DB	ECEC2AA152DJ	200
		35	25	2.1	0.15	ECEC2AA152EB	ECEC2AA152EJ	200
	1800	25	45	2.3	0.15	ECEC2AA182CB	ECEC2AA182CJ	200
		30	35	2.3	0.15	ECEC2AA182DB	ECEC2AA182DJ	100
		35	30	2.3	0.15	ECEC2AA182EB	ECEC2AA182EJ	200
	2200	25	50	2.6	0.15	ECEC2AA222CB	ECEC2AA222CJ	200
		30	40	2.6	0.15	ECEC2AA222DB	ECEC2AA222DJ	100
		35	30	2.6	0.15	ECEC2AA222EB	ECEC2AA222EJ	200
	2700	30	45	2.9	0.15	ECEC2AA272DB	ECEC2AA272DJ	100
		35	35	2.9	0.15	ECEC2AA272EB	ECEC2AA272EJ	100
3300	30	50	3.2	0.15	ECEC2AA332DB	ECEC2AA332DJ	100	
	35	40	3.2	0.15	ECEC2AA332EB	ECEC2AA332EJ	100	
3900	35	45	3.6	0.15	ECEC2AA392EB	ECEC2AA392EJ	100	
4700	35	50	3.8	0.15	ECEC2AA472EB	ECEC2AA472EJ	100	

Endurance : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

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### ■ Standard Products (Dia. : 20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Q'ty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
10	6800	20	25	1.30	0.55	ECEC1AA682AB	ECEC1AA682AJ	300
	8200	20	30	1.60	0.55	ECEC1AA822AB	ECEC1AA822AJ	300
	10000	20	30	1.80	0.55	ECEC1AA103AB	ECEC1AA103AJ	300
	12000	20	35	2.20	0.55	ECEC1AA123AB	ECEC1AA123AJ	300
	15000	20	40	2.30	0.55	ECEC1AA153AB	ECEC1AA153AJ	300
16	6800	20	30	2.20	0.45	ECEC1CA682AB	ECEC1CA682AJ	300
	8200	20	35	2.40	0.45	ECEC1CA822AB	ECEC1CA822AJ	300
	10000	20	40	2.60	0.45	ECEC1CA103AB	ECEC1CA103AJ	300
25	4700	20	30	2.00	0.35	ECEC1EA472AB	ECEC1EA472AJ	300
	5600	20	35	2.20	0.35	ECEC1EA562AB	ECEC1EA562AJ	300
	6800	20	40	2.40	0.35	ECEC1EA682AB	ECEC1EA682AJ	300
35	3300	20	30	1.90	0.30	ECEC1VA332AB	ECEC1VA332AJ	300
	3900	20	35	2.00	0.30	ECEC1VA392AB	ECEC1VA392AJ	300
	4700	20	40	2.20	0.30	ECEC1VA472AB	ECEC1VA472AJ	300
50	1800	20	30	1.50	0.25	ECEC1HA182AB	ECEC1HA182AJ	300
	2200	20	35	1.70	0.25	ECEC1HA222AB	ECEC1HA222AJ	300
	2700	20	40	1.80	0.25	ECEC1HA272AB	ECEC1HA272AJ	300
63	1200	20	30	1.40	0.20	ECEC1JA122AB	ECEC1JA122AJ	300
	1500	20	35	1.50	0.20	ECEC1JA152AB	ECEV1JA152AJ	300
	1800	20	40	1.70	0.20	ECEC1JA182AB	ECEC1JA182AJ	300
80	820	20	30	1.20	0.17	ECEC1KA821AB	ECEC1KA821AJ	300
	1000	20	35	1.30	0.17	ECEC1KA102AB	ECEC1KA102AJ	300
	1200	20	40	1.50	0.17	ECEC1KA122AB	ECEC1KA122AJ	300
100	560	20	30	1.10	0.15	ECEC2AA561AB	ECEC2AA561AJ	300
	820	20	35	1.40	0.15	ECEC2AA821AB	ECEC2AA821AJ	300
	1000	20	40	1.70	0.15	ECEC2AA102AB	ECEC2AA102AJ	300
160	220	20	25	1.00	0.15	ECEC2CA221AB	ECEC2CA221AJ	300
	270	20	30	1.10	0.15	ECEC2CA271AB	ECEC2CA271AJ	300
	330	20	35	1.20	0.15	ECEC2CA331AB	ECEC2CA331AJ	300
	390	20	40	1.30	0.15	ECEC2CA391AB	ECEC2CA391AJ	300
180	220	20	30	1.00	0.15	ECEC2PA221AB	ECEC2PA221AJ	300
	270	20	35	1.10	0.15	ECEC2PA271AB	ECEC2PA271AJ	300
200	220	20	30	1.00	0.15	ECEC2DA221AB	ECEC2DA221AJ	300
	270	20	35	1.10	0.15	ECEC2DA271AB	ECEC2DA271AJ	300
	330	20	40	1.20	0.15	ECEC2DA331AB	ECEC2DA331AJ	300
250	180	20	35	0.90	0.15	ECEC2EA181AB	ECEC2EA181AJ	300
	220	20	40	1.00	0.15	ECEC2EA221AB	ECEC2EA221AJ	300
315	82	20	30	0.64	0.15	ECEC2FA820AB	ECEC2FA820AJ	300
	100	20	35	0.69	0.15	ECEC2FA101AB	ECEC2FA101AJ	300
	120	20	40	0.75	0.15	ECEC2FA121AB	ECEC2FA121AJ	300
350	68	20	25	0.56	0.15	ECEC2VA680AB	ECEC2VA680AJ	300
	82	20	30	0.64	0.15	ECEC2VA820AB	ECEC2VA820AJ	300
	100	20	35	0.69	0.15	ECEC2VA101AB	ECEC2VA101AJ	300
	120	20	40	0.75	0.15	ECEC2VA121AB	ECEC2VA121AJ	300
400	56	20	30	0.51	0.15	ECEC2GA560AB	ECEC2GA560AJ	300
	68	20	35	0.56	0.15	ECEC2GA680AB	ECEC2GA680AJ	300
	82	20	40	0.64	0.15	ECEC2GA820AB	ECEC2GA820AJ	300

Endurance : 105°C 2000h  
Terminal Pitch : 10mm

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### ■ Standard Products (L: 20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Q'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
16	3300	22	20	1.30	0.45	ECEC1CA332AG	ECEC1CA332BJ	200
	4700	25	20	1.60	0.45	ECEC2CA472CG	ECEC2CA472CJ	200
	6800	30	20	1.80	0.45	ECEC1CA682DG	ECEC1CA682DJ	200
	10000	35	20	2.40	0.45	ECEC1CA103EG	ECEC1CA103EJ	200
25	2200	22	20	1.30	0.35	ECEC1EA222BG	ECEC1EA222BJ	200
	3300	25	20	1.60	0.35	ECEC1EA332CG	ECEC1EA332CJ	200
	4700	30	20	1.80	0.35	ECEC1EA472DG	ECEC1EA472DJ	200
	6800	35	20	2.30	0.35	ECEC1EA682EG	ECEC1EA682EJ	200
35	1500	22	20	1.10	0.30	ECEC1VA152BG	ECEC1VA152BJ	200
	2200	25	20	1.40	0.30	ECEC1VA222CG	ECEC1VA222CJ	200
	3300	30	20	1.70	0.30	ECEC1VA332DG	ECEC1VA332DJ	200
	4700	35	20	2.00	0.30	ECEC1VA472EG	ECEC1VA472EJ	200
50	1000	22	20	0.90	0.25	ECEC1HA102BG	ECEC1HA102BJ	200
	1500	25	20	1.20	0.25	ECEC1HA152CG	ECEC1HA152CJ	200
	2200	30	20	1.40	0.25	ECEC1HA222DG	ECEC1HA222DJ	200
	3300	35	20	1.70	0.25	ECEC1HA332EG	ECEC1HA332EJ	200
63	680	22	20	0.90	0.20	ECEC1JA681BG	ECEC1JA681EJ	200
	1000	25	20	1.20	0.20	ECEC1JA102CG	ECEC1JA102CJ	200
	1500	30	20	1.30	0.20	ECEC1JA152DG	ECEC1JA152DJ	200
	2200	35	20	1.50	0.20	ECEC1JA222EG	ECEC1JA222EJ	200
80	470	22	20	0.80	0.17	ECEC1KA471BG	ECEC1KA471BJ	200
	680	25	20	1.00	0.17	ECEC1KA681CG	ECEC1KA681CJ	200
	1000	30	20	1.20	0.17	ECEC1KA102DG	ECEC1KA102DJ	200
	1500	35	20	1.40	0.17	ECEC1KA152EG	ECEC1KA152EJ	200
100	330	22	20	0.80	0.15	ECEC2AA331BG	ECEC2AA331BJ	200
	470	25	20	1.00	0.15	ECEC2AA471CG	ECEC2AA471CJ	200
	680	30	20	1.10	0.15	ECEC2AA681DG	ECEC2AA681DJ	200
	1000	35	20	1.20	0.15	ECEC2AA102EG	ECEC2AA102EJ	200
160	150	22	20	0.55	0.15	ECEC2CA151BG	ECEC2CA151BJ	200
	220	25	20	0.75	0.15	ECEC2CA221CG	ECEC2CA221CJ	200
	330	30	20	1.00	0.15	ECEC2CA331DG	ECEC2CA331DJ	200
	470	35	20	1.15	0.15	ECEC2CA471EG	ECEC2CA471EJ	200
180	120	22	20	0.50	0.15	ECEC2PA121BG	ECEC2PA121BJ	200
	180	25	20	0.70	0.15	ECEC2PA181CG	ECEC2PA181CJ	200
	270	30	20	0.87	0.15	ECEC2PA271DG	ECEC2PA271DJ	200
	390	35	20	1.00	0.15	ECEC2PA391EG	ECEC2PA391EJ	200
200	100	22	20	0.50	0.15	ECEC2DA101BG	ECEC2DA101BJ	200
	150	25	20	0.65	0.15	ECEC2DA151CG	ECEC2DA151CJ	200
	220	30	20	0.87	0.15	ECEC2DA221DG	ECEC2DA221DJ	200
	330	35	20	1.10	0.15	ECEC2DA331EG	ECEC2DA331EJ	200
250	68	22	20	0.40	0.15	ECEC2EA680BG	ECEC2EA680BJ	200
	100	25	20	0.50	0.15	ECEC2EA101CG	ECEC2EA101CJ	200
	150	30	20	0.65	0.15	ECEC2EA151DG	ECEC2EA151DJ	200
	220	35	20	0.67	0.15	ECEC2EA221EG	ECEC2EA221EJ	200
400	33	22	20	0.20	0.15	ECEC2GA330BG	ECEC2GA330BJ	200
	47	25	20	0.25	0.15	ECEC2GA470CG	ECEC2GA470CJ	200
	68	30	20	0.35	0.15	ECEC2GA680DG	ECEC2GA680DJ	200
	100	35	20	0.47	0.15	ECEC2GA101EG	ECEC2GA101EJ	200

Endurance : 105°C 2000h

Terminal Pitch : 10mm

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